

Appln No. 10/762,088  
Amdt date May 30, 2006  
Reply to Office action of January 31, 2006

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently amended) An FM-CW radar apparatus comprising: using  
a traveling wave antenna as a transmitting antenna, and ~~comprising~~  
a means for varying the frequency of transmitted waves radiated from said traveling wave  
antenna,  
wherein the projection tilt angle of a combined beam pattern of the transmitted waves is  
varied in upward/downward directions by varying the frequency of the ~~projection angle of a~~  
~~combined beam pattern of a transmitted wave~~ waves radiated from said traveling wave antenna.
2. (Cancelled)
3. (Currently amended) ~~An~~ The FM-CW radar apparatus as claimed in claim 1  
[[2]], wherein said means for varying the frequency of ~~said~~ transmitted waves ~~wave~~ varies said  
frequency by varying a modulating voltage to be input to a voltage-controlled oscillator that  
outputs said transmitted waves ~~wave~~.
4. (Currently amended) ~~An~~ The FM-CW radar apparatus as claimed in claim 1  
[[2]], wherein said means for varying the frequency of said transmitted waves ~~wave~~ includes a  
means for switching a ~~said~~ modulating voltage to be input to a ~~said~~ voltage-controlled oscillator  
that outputs said transmitted waves ~~wave~~, and wherein the frequency of said transmitted waves  
~~wave~~ is switched between an upper band region and a lower band region by switching said  
modulating voltage.

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5. (Cancelled)

6. (Cancelled)